

(FILE 'USPAT' ENTERED AT 14:20:39 ON 16 MAR 1998)

L1 12 S (NEURAL(W)STEM(W)CELLS OR NEURAL(W)PROGENITOR(W)CELLS)
L2 0 S L1 AND SENSORY(W)RECEPTOR
L3 45 S OLFACTORY(W)EPITHELIUM
L4 1 S L3 AND SENSORY(W)RECEPTOR
L5 3679 S NEURONS OR ASTORCYTES OR OLIGODENDROCYTES
L6 2 S L5 AND SENSORY(W)RECEPTOR

=> d 11 1-12

1. 5,693,482, Dec. 2, 1997, Neural chest stem cell assay; David J. Anderson, et al., 435/29 [IMAGE AVAILABLE]
2. 5,676,943, Oct. 14, 1997, Compositions and methods for the delivery of biologically active molecules using genetically altered cells contained in biocompatible immunoisulatory capsules; Edward E. Baetge, et al., 424/93.21, 93.3; 435/172.3 [IMAGE AVAILABLE]
3. 5,672,499, Sep. 30, 1997, Immortalized neural crest stem cells and methods of making; David J. Anderson, et al., 435/69.1, 172.3, 320.1, 325, 353, 368 [IMAGE AVAILABLE]
4. 5,656,481, Aug. 12, 1997, Compositions and methods for the delivery of biologically active molecules using cells contained in biocompatible capsules; Edward E. Baetge, et al., 435/325; 424/93.1, 93.2, 93.21, 93.3, 93.7; 435/172.3, 347, 373, 382 [IMAGE AVAILABLE]
5. 5,654,183, Aug. 5, 1997, Genetically engineered mammalian neural crest stem cells; David J. Anderson, et al., 435/172.3, 69.1, 320.1, 325, 353, 368 [IMAGE AVAILABLE]
6. 5,653,975, Aug. 5, 1997, Compositions and methods for the delivery of biologically active molecules using cells contained in biocompatible capsules; Edward E. Baetge, et al., 424/93.1, 93.2, 93.21, 93.3, 93.7; 435/172.3 [IMAGE AVAILABLE]
7. 5,639,618, Jun. 17, 1997, Method of isolating a lineage specific stem cell in vitro; David A. Gay, 435/7.21, 2, 6, 7.1, 7.2 [IMAGE AVAILABLE]
8. 5,639,275, Jun. 17, 1997, Delivery of biologically active molecules using cells contained in biocompatible immunoisulatory capsules; Edward E. Baetge, et al., 604/891.1; 424/93.1, 93.2, 422, 424; 435/172.3, 325 [IMAGE AVAILABLE]
9. 5,629,159, May 13, 1997, Immortalization and disimmortalization of cells; David J. Anderson, 435/6, 69.1, 172.3, 194, 325, 357, 363, 366, 368, 372 [IMAGE AVAILABLE]
10. 5,612,211, Mar. 18, 1997, Stimulation, production and culturing of hematopoietic progenitor cells by fibroblast growth factors; Elaine L. Wilson, et al., 435/378; 424/577; 435/325, 377, 384; 514/2, 12; 530/324, 351, 399 [IMAGE AVAILABLE]
11. 5,550,050, Aug. 27, 1996, Method for implanting encapsulated cells in a host; Laura M. Holland, et al., 435/382, 244, 245 [IMAGE AVAILABLE]
12. 5,514,552, May 7, 1996, Hybrid neuronal cell lines compositions and methods; Marsha R. Rosner, et al., 435/7.21, 172.2, 172.3, 346 [IMAGE AVAILABLE]

AVAILABLE]

=> d 14

1. 5,688,662, Nov. 18, 1997, Gustducin polynucleotides, vectors, host cells and recombinant methods; Robert F. Margolskee, 435/69.1, 320.1; 530/350; 536/23.1 [IMAGE AVAILABLE]

=> d 16 1,2

1. 5,688,662, Nov. 18, 1997, Gustducin polynucleotides, vectors, host cells and recombinant methods; Robert F. Margolskee, 435/69.1, 320.1; 530/350; 536/23.1 [IMAGE AVAILABLE]

2. 5,147,294, Sep. 15, 1992, Therapeutic method for reducing chronic pain in a living subject; Ivor S. Smith, et al., 604/49; 128/898; 604/20 [IMAGE AVAILABLE]

Set	Items	Description
S1	81	NEURAL(W)STEM(W)CELLS OR NEURAL(W)PROGENITOR(W)CELLS
S2	0	S1 AND SENSORY RECEPTOR
S3	0	S1 AND OLFACTORY(W)EPITHELIUM
S4	1011	OLFACTORY(W)EPITHELIUM
S5	136	SENSORY(W)RECEPTOR
S6	4	S4 AND S5
S7	17733	TONGUE
S8	1	S5 AND S7
S9	7	S1 AND RECEPTOR

? t s6/3/1-4

6/3/1

DIALOG(R)File 155:MEDLINE(R)

(c) format only 1998 Dialog Corporation. All rts. reserv.

08261057 95176335

Behavioral, histological, and neurochemical effects of nickel (II) on the rat olfactory system.

Evans JE; Miller ML; Andringa A; Hastings L

Department of Pharmacology, Ohio State University, Columbus, Cincinnati.

Toxicol Appl Pharmacol (UNITED STATES) Feb 1995, 130 (2) p209-20,

ISSN 0041-008X Journal Code: VWO

Contract/Grant No.: ES-04099, ES, NIEHS; 5 P30 ES-06096, ES, NIEHS

Languages: ENGLISH

Document type: JOURNAL ARTICLE

6/3/2

DIALOG(R)File 155:MEDLINE(R)

(c) format only 1998 Dialog Corporation. All rts. reserv.

07334140 92097729

Receptor cell regeneration and connectivity in olfaction and taste.

Oakley B; Riddle DR

Department of Biology, University of Michigan, Ann Arbor 48109.

Exp Neurol (UNITED STATES) Jan 1992, 115 (1) p50-4, ISSN 0014-4886

Journal Code: EQF

Contract/Grant No.: DC00083, DC, NIDCD

Languages: ENGLISH

Document type: JOURNAL ARTICLE

6/3/3

DIALOG(R)File 155:MEDLINE(R)

(c) format only 1998 Dialog Corporation. All rts. reserv.

05651226 90058132

Peroxidase backfills suggest the mammalian **olfactory epithelium** contains a second morphologically distinct class of bipolar sensory neuron: the microvillar cell.

Rowley JC 3d; Moran DT; Jafek BW

Department of Cellular and Structural Biology, University of Colorado School of Medicine, Denver 80262.

Brain Res (NETHERLANDS) Nov 20 1989, 502 (2) p387-400, ISSN 0006-8993

Journal Code: B5L

Contract/Grant No.: 2-PO1-NS20486, NS, NINDS

Languages: ENGLISH

6/3/4

DIALOG(R) File 155:MEDLINE(R)

(c) format only 1998 Dialog Corporation. All rts. reserv.

04176604 84170402

Membrane proteins unique to vertebrate olfactory cilia: candidates for **sensory receptor** molecules.

Chen Z; Lancet D

Proc Natl Acad Sci U S A (UNITED STATES) Mar 1984, 81 (6) p1859-63,
ISSN 0027-8424 Journal Code: PV3

Languages: ENGLISH

Document type: JOURNAL ARTICLE

? t s8/3

8/3/1

DIALOG(R) File 155:MEDLINE(R)

(c) format only 1998 Dialog Corporation. All rts. reserv.

08269044 95199264

Taste receptor cells arise from local epithelium, not neurogenic ectoderm.

Stone LM; Finger TE; Tam PP; Tan SS

Rocky Mountain Taste and Smell Center, Department of Cellular and Structural Biology, University of Colorado School of Medicine, Denver 80262.

Proc Natl Acad Sci U S A (UNITED STATES) Mar 14 1995, 92 (6) p1916-20,
ISSN 0027-8424 Journal Code: PV3

Contract/Grant No.: P01DC00244, DC, NIDCD

Languages: ENGLISH

Document type: JOURNAL ARTICLE

? t s9/3/all

9/3/1

DIALOG(R) File 155:MEDLINE(R)

(c) format only 1998 Dialog Corporation. All rts. reserv.

09353518 98063025

Generation and transplantation of EGF-responsive **neural stem cells** derived from GFAP-hNGF transgenic mice.

Carpenter MK; Winkler C; Fricker R; Emerich DF; Wong SC; Greco C; Chen EY ; Chu Y; Kordower JH; Messing A; Bjorklund A; Hammang JP
Department of Cell and Molecular Neurobiology, CytoTherapeutics, Inc., Providence, Rhode Island 02906, USA.

Exp Neurol (UNITED STATES) Nov 1997, 148 (1) p187-204, ISSN 0014-4886
Journal Code: EQF

Contract/Grant No.: NS 35708, NS, NINDS

Languages: ENGLISH

Document type: JOURNAL ARTICLE

9/3/2

DIALOG(R) File 155:MEDLINE(R)

(c) format only 1998 Dialog Corporation. All rts. reserv.

09350819 97453282

An immortalized septal cell line that expresses trkA mRNA in response to basic fibroblast growth factor.

Miyasaka N; Matsuoka I; Kurihara K

Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo, Japan.
Neurochem Int (ENGLAND) Oct 1997, 31 (4) p557-62, ISSN 0197-0186

Journal Code: BNU
Languages: ENGLISH
Document type: JOURNAL ARTICLE

9/3/3
DIALOG(R) File 155:MEDLINE(R)
(c) format only 1998 Dialog Corporation. All rts. reserv.

09274242 97349136
Neuroepithelial stem cells from the embryonic spinal cord: isolation, characterization, and clonal analysis.
Kalyani A; Hobson K; Rao MS
Department of Neurobiology and Anatomy, University of Utah School of Medicine, Salt Lake City 84132, USA.
Dev Biol (UNITED STATES) Jun 15 1997, 186 (2) p202-23, ISSN 0012-1606
Journal Code: E7T
Languages: ENGLISH
Document type: JOURNAL ARTICLE

9/3/4
DIALOG(R) File 155:MEDLINE(R)
(c) format only 1998 Dialog Corporation. All rts. reserv.

09086099 97338142
A 10-amino acid sequence of fibroblast growth factor 2 is sufficient for its mitogenic activity on **neural progenitor cells**.
Ray J; Baird A; Gage FH
Salk Institute for Biological Studies, Laboratory of Genetics, La Jolla, CA 92037, USA.
Proc Natl Acad Sci U S A (UNITED STATES) Jun 24 1997, 94 (13) p7047-52
, ISSN 0027-8424 Journal Code: PV3
Languages: ENGLISH
Document type: JOURNAL ARTICLE

9/3/5
DIALOG(R) File 155:MEDLINE(R)
(c) format only 1998 Dialog Corporation. All rts. reserv.

08792354 96424522
Flk-1, a **receptor** for vascular endothelial growth factor (VEGF), is expressed by retinal progenitor cells.
Yang K; Cepko CL
Howard Hughes Medical Institute, Harvard Medical School, Boston, Massachusetts 02115, USA.
J Neurosci (UNITED STATES) Oct 1 1996, 16 (19) p6089-99, ISSN 0270-6474 Journal Code: JDF
Contract/Grant No.: R01EY09676, EY, NEI
Languages: ENGLISH
Document type: JOURNAL ARTICLE

9/3/6
DIALOG(R) File 155:MEDLINE(R)
(c) format only 1998 Dialog Corporation. All rts. reserv.

08441034 96035122
Cytokines regulate the cellular phenotype of developing neural lineage species.
Mehler MF; Marmur R; Gross R; Mabie PC; Zang Z; Papavasiliou A; Kessler JA
Department of Neurology, Albert Einstein College of Medicine, Bronx, NY 10461, USA.

Int J Dev Neurosci (ENGLAND) Jun-Jul 1995, 13 (3-4) p213-40, ISSN
0736-5748 Journal Code: 126
Languages: ENGLISH
Document type: JOURNAL ARTICLE

9/3/7

DIALOG(R)File 155:MEDLINE(R)

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08380792 95370931

CNS-derived **neural progenitor cells** for gene transfer
of nerve growth factor to the adult rat brain: complete rescue of
axotomized cholinergic neurons after transplantation into the septum.

Martinez-Serrano A; Lundberg C; Horellou P; Fischer W; Bentlage C;
Campbell K; McKay RD; Mallet J; Bjorklund A

Department of Medical Cell Research, University of Lund, Sweden.

J Neurosci (UNITED STATES) Aug 1995, 15 (8) p5668-80, ISSN 0270-6474
Journal Code: JDF

Contract/Grant No.: NS 06701, NS, NINDS

Languages: ENGLISH

Document type: JOURNAL ARTICLE

? d s9/3/7, 8, 11, 12

Display 9/3/7 (Item 7 from file: 5)
DIALOG(R)File 5:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

13345715 BIOSIS Number: 99345715
Kainate-preferring glutamate %receptor% expression in primary %neural%
%progenitor% %cells%
Scherer S; Gallo V
Lab. Cellular and Molecular Neurophysiol., NICHD, NIH, Bethesda, MD, USA
Developmental Neuroscience 18 (4). 1996. 290.
Full Journal Title: Fourth Biennial Ray and Robert Kroc Symposium in
Neurology, ~~Frontiers of Myelinating Cell Biology~~, Farmington, Connecticut,
USA, August 19-21, 1995. Developmental Neuroscience
ISSN: 0378-5866
Language: ENGLISH
Document Type: CONFERENCE PAPER
Print Number: Biological Abstracts/RRM Vol. 049 Iss. 002 Ref. 018607

- end of record -

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Display 9/3/8 (Item 8 from file: 5)
DIALOG(R)File 5:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

13213344 BIOSIS Number: 99213344
Expression of the low affinity neurotrophin %receptor% by subependymal
zone progenitor cells in adult rat brain: Effects of neurotrophin
administration
Wiegand S J; Cai N; Ge P; Zigova T; Anderson K D; Luskin M B; Lindsay R M
Regeneron Pharmaceuticals Inc., Tarrytown, NY 10591, USA
Society for Neuroscience Abstracts 22 (1-3). 1996. 994.
Full Journal Title: 26th Annual Meeting of the Society for Neuroscience,
Washington, D.C., USA, November 16-21, 1996. Society for Neuroscience
Abstracts
ISSN: 0190-5295
Language: ENGLISH
Document Type: CONFERENCE PAPER
Print Number: Biological Abstracts/RRM Vol. 048 Iss. 011 Ref. 192465

- end of record -

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Display 9/3/11 (Item 1 from file: 351)
DIALOG(R)File 351:DERWENT WPI
(c)1998 Derwent Info Ltd. All rts. reserv.

011614617
WPI Acc No: 98-031745/199803
Related WPI Acc No: 94-048851; 97-401850; 97-511308
XRAM Acc No: C98-010672

Assaying effecting of substances on neural crest stem cells - comprises
contacting cell culture with substance and determining effect, useful in,
e.g. clonally propagating non-transformed mammalian multi-potent cells
Patent Assignee: CALIFORNIA INST OF TECHNOLOGY (CALY)
Inventor: ANDERSON D J; STEMPLE D L
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
US 5693482	A	19971202	US 92920617	A	19920727	C12Q-001/02	199803 B
			US 92969088	A	19921029		
			WO 93US7000	A	19930726		
			US 94188286	A	19940128		

-more-

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Display 9/3/11 (Item 1 from file: 351)
 DIALOG(R)File 351:DERWENT WPI
 (c)1998 Derwent Info Ltd. All rts. reserv.
 US 95474506 A 19950607

Priority Applications (No Type Date): US 94188286 A 19940128; US 92920617 A 19920727; US 92969088 A 19921029; WO 93US7000 A 19930726; US 95474506 A 19950607

Filing Details:

Patent	Kind	Filing Notes	Application	Patent
US 5693482	A	CIP of	US 92920617	
		CIP of	US 92969088	
		CIP of	WO 93US7000	
		Div ex	US 94188286	

Language, Pages: US 5693482 (47)

- end of record -

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Display 9/3/12 (Item 2 from file: 351)
 DIALOG(R)File 351:DERWENT WPI
 (c)1998 Derwent Info Ltd. All rts. reserv.

009769000

WPI Acc No: 94-048851/199406

Related WPI Acc No: 97-401850; 97-511308; 98-031745

XRAM Acc No: C94-022139

XRPX Acc No: N94-038383

Mammalian multi-potent %neural% %stem% %cells% - are capable of self renewal and differentiation to neuronal and glial progenitor(s), and their immortalised forms, useful in transplantation or gene therapy of nervous system diseases

Patent Assignee: CALIFORNIA INST OF TECHNOLOGY (CALY); CALIFORNIA INST OF TECHN (CALY)

Inventor: ANDERSON D J; STEMPLE D L; ANDERSON D; STEMPLE D

Number of Countries: 022 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
WO 9402593	A1	19940203	WO 93US7000	A	19930726	C12N-005/06	199406 B

-more-

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Display 9/3/12 (Item 2 from file: 351)
 DIALOG(R)File 351:DERWENT WPI
 (c)1998 Derwent Info Ltd. All rts. reserv.

✓ AU 9348375	A	19940214	AU 9348375	A	19930726		199425
			WO 93US7000	A	19930726		
EP 658194	A1	19950621	EP 93921175	A	19930726		199529
			WO 93US7000	A	19930726		
JP 8500245	W	19960116	WO 93US7000	A	19930726	C12N-005/06	199642
			JP 94504741	A	19930726		
US 5589376	A	19961231	US 92920617	A	19920727	C12N-005/00	199707
			US 94290228	A	19940815		
NZ 256154	A	19970224	NZ 256154	A	19930726	C12N-005/06	199715

WO 93US7000 A 19930726
AU 678988 B 19970619 AU 9348375 A 19930726 C12N-005/06 199733

Priority Applications (No Type Date): US 92969088 A 19921029; US 92920617 A
19920727; US 94290228 A 19940815

Filing Details:

Patent	Kind	Filing Notes	Application	Patent
WO 9402593	A1			

-more-

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Display 9/3/12 (Item 2 from file: 351)
DIALOG(R)File 351:DERWENT WPI
(c)1998 Derwent Info Ltd. All rts. reserv.
Designated States (National): AU CA JP NZ US
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL
PT SE
AU 9348375 A Based on WO 9402593
EP 658194 A1 Based on WO 9402593
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
NL PT SE
JP 8500245 W Based on WO 9402593
US 5589376 A Cont of US 92920617
NZ 256154 A Based on WO 9402593
AU 678988 B Previous Publ. AU 9348375
Based on WO 9402593
Language, Pages: WO 9402593 (90); EP 658194 (E); JP 8500245 (82); US
5589376 (29)

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Set	Items	Description
S1	0	TONGUE AND PRECURSOR(N) CELL
S2	0	TONGUE AND PRECURSOR(W) CELL
S3	18186	TONGUE
S4	31685	STEM(W) CELLS
S5	27	S3 AND S4
S6	9	S3 AND PROGENITOR(W) CELLS

?d s5/3/10, 14

Display 5/3/10

DIALOG(R) File 155:MEDLINE(R)

(c) format only 1998 Dialog Corporation. All rts. reserv.

08076553 95084497

Stem cell regions in filiform papillae of tongue as targets of graft-versus-host disease.

Sale GE; Raff RF; Storb R

Department of Pathology, Fred Hutchinson Cancer Research Center, University of Washington, Seattle 98104.

Transplantation (UNITED STATES) Dec 15 1994, 58 (11) p1273-5, ISSN 0041-1337 Journal Code: WEJ

Contract/Grant No.: HL 36444, HL, NHLBI; CA15704, CA, NCI; CA18209, CA, NCI; +

Languages: ENGLISH

Document type: JOURNAL ARTICLE

- end of record -

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Display 5/3/14

DIALOG(R) File 155:MEDLINE(R)

(c) format only 1998 Dialog Corporation. All rts. reserv.

07044744 92208091

The clonal organization of the squamous epithelium of the tongue.

Seddon SV; Walker DM; Williams D; Williams ED

Department of Oral Surgery Medicine and Pathology, Dental School, University of Wales College of Medicine, Cardiff, UK.

Cell Prolif (ENGLAND) Mar 1992, 25 (2) p115-24, ISSN 0960-7722

Journal Code: A3A

Languages: ENGLISH

Document type: JOURNAL ARTICLE

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?d s6/3/5, 8

Display 6/3/5

DIALOG(R) File 155:MEDLINE(R)

(c) format only 1998 Dialog Corporation. All rts. reserv.

07153273 92399233

Desmin expression during early mouse tongue morphogenesis.

Mayo ML; Bringas P Jr; Santos V; Shum L; Slavkin HC

Center for Craniofacial Molecular Biology, University of Southern California, School of Dentistry, Los Angeles 90033.

Int J Dev Biol (SPAIN) Jun 1992, 36 (2) p255-63, ISSN 0214-6282

Journal Code: AV3

Contract/Grant No.: P50-DE-09165, DE, NIDR

Languages: ENGLISH

Document type: JOURNAL ARTICLE

- end of record -

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Display 6/3/8

DIALOG(R) File 155:MEDLINE(R)

(c) format only 1998 Dialog Corporation. All rts. reserv.

04510437 82283456

Quantitative histological analysis of the epithelium of the ventral surface of hamster tongue in experimental iron deficiency.

Rennie JS; MacDonald DG
Arch Oral Biol (ENGLAND) 1982, 27 (5) p393-7, ISSN 0003-9969
Journal Code: 83M
Languages: ENGLISH
Document type: JOURNAL ARTICLE

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Display 3/3/2 (Item 2 from file: 5)
DIALOG(R)File 5:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

10614288 BIOSIS NO.: 199699235433

**Colony-forming progenitors from mouse olfactory epithelium: Evidence
for feedback regulation of neuron production.**

AUTHOR: Mumm Jeffrey S; Shou Jianyong; Calof Anne L (a
AUTHOR ADDRESS: (a)Dep. Anat. Neurobiol., 364 Med Surge II, Univ. Calif.,
Irvine, Coll. Med., Irvine, CA 92697-1275, USA

JOURNAL: Proceedings of the National Academy of Sciences of the United
States of America 93 (20):p11167-11172 1996
ISSN: 0027-8424

Set	Items	Description
S1	0	AU="CALOF A L" AND AU="CALOF ANNE L"
S2	8	AU="CALOF ANNE L"
S3	4	S2 AND OLFACTORY(W) EPITHELIUM/TI

?d s3/3/all

Display 3/3/1 (Item 1 from file: 5)
 DIALOG(R)File 5:BIOSIS PREVIEWS(R)
 (c) 1998 BIOSIS. All rts. reserv.

11625151 BIOSIS NO.: 199800407456
The neuronal stem cell of the olfactory epithelium.

AUTHOR: Calof Anne L (a); Mumm Jeffrey S; Rim Peter C; Shou Jianyong
 AUTHOR ADDRESS: (a)Dep. Anat. Neurobiol., 364 Med Surge II, Univ.
 California Irvine, Coll. Med., Irvine, CA 92697-1, USA

JOURNAL: Journal of Neurobiology 36 (2):p190-205 Aug., 1998
 ISSN: 0022-3034

- end of record -

?

Display 3/3/2 (Item 2 from file: 5)
 DIALOG(R)File 5:BIOSIS PREVIEWS(R)
 (c) 1998 BIOSIS. All rts. reserv.

10614288 BIOSIS NO.: 199699235433
Colony-forming progenitors from mouse olfactory epithelium: Evidence for feedback regulation of neuron production.

AUTHOR: Mumm Jeffrey S; Shou Jianyong; Calof Anne L (a)
 AUTHOR ADDRESS: (a)Dep. Anat. Neurobiol., 364 Med Surge II, Univ. Calif.,
 Irvine, Coll. Med., Irvine, CA 92697-1275, USA

JOURNAL: Proceedings of the National Academy of Sciences of the United States of America 93 (20):p11167-11172 1996
 ISSN: 0027-8424

- end of record -

?

Display 3/3/3 (Item 3 from file: 5)
 DIALOG(R)File 5:BIOSIS PREVIEWS(R)
 (c) 1998 BIOSIS. All rts. reserv.

10373373 BIOSIS NO.: 199698828291
Neurogenesis and cell death in olfactory epithelium.

AUTHOR: Calof Anne L (a); Hagiwara Nobuko; Holcomb J David; Mumm Jeffrey S
 ; Shou Jianyong
 AUTHOR ADDRESS: (a)Dep. Anatomy Neurobiol., Univ. California, College Med.,
 Irvine, CA 92717-1275, USA

JOURNAL: Journal of Neurobiology 30 (1):p67-81 1996
 ISSN: 0022-3034

- end of record -

?

Display 3/3/4 (Item 4 from file: 5)
 DIALOG(R)File 5:BIOSIS PREVIEWS(R)
 (c) 1998 BIOSIS. All rts. reserv.

10150376 BIOSIS NO.: 199698605294
Apoptosis in the neuronal lineage of the mouse olfactory epithelium: Regulation in vivo and in vitro.

AUTHOR: Holcomb J David; Mumm Jeffrey S; Calof Anne L (a)
 AUTHOR ADDRESS: (a)Dep. Anatomy Neurobiol., 364 Med Surge II, Univ.
 California Coll. Med., Irvine, CA 92717-1275, USA

JOURNAL: Developmental Biology 172 (1):p307-323 1995
ISSN: 0012-1606

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?d sl/5/1

Display 1/5/1

DIALOG(R) File 434:SciSearch(R) Cited Ref Sci
(c) 1998 Inst for Sci Info. All rts. reserv.

09621926 Genuine Article#: AG992 Number of References: 44

Title: ANALYSIS OF NEUROGENESIS IN A MAMMALIAN NEUROEPITHELIUM -
PROLIFERATION AND DIFFERENTIATION OF AN OLFACTORY NEURON PRECURSOR
INVITRO

Author(s): CALOF AL ; CHIKARAISHI DM

Corporate Source: TUFTS UNIV,SCH MED,NEUROSCI PROGRAM/BOSTON//MA/02111

Journal: NEURON, 1989, V3, N1, P115-127

Language: ENGLISH Document Type: ARTICLE

Geographic Location: USA

Subfile: SciSearch; Scisearch; CC LIFE--Current Contents, Life Sciences

Journal Subject Category: NEUROSCIENCES

Research Fronts: 87-0290 001 (CYTOKERATIN EXPRESSION; INTERMEDIATE
FILAMENT PROTEINS; EPITHELIAL TUMORS; SQUAMOUS-CELL CARCINOMA LINES;
MOUSE EPIDERMAL KERATINS)

87-0685 001 (RAT CEREBELLAR CORTEX; EXTERNAL GRANULAR LAYER; ALTERED
PURKINJE-CELL MATURATION)

Set	Items	Description
S1	1062	OLFACTORY(W) EPITHELIUM
S2	5035	PRECURSOR(W) CELL?
S3	23	S1 AND S2

?t s3/3/6-8, 10

3/3/6

DIALOG(R) File 155:MEDLINE(R)

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08921876 97081420

Lineage specification of olfactory neural precursor cells depends on continuous cell interactions.

Magrassi L; Graziadei PP

Department of Biological Science, Florida State University, Tallahassee 32306-4075, USA.

Brain Res Dev Brain Res (NETHERLANDS) Oct 23 1996, 96 (1-2) p11-27, ISSN 0165-3806 Journal Code: DBR

Contract/Grant No.: NS20699, NS, NINDS

Languages: ENGLISH

Document type: JOURNAL ARTICLE

3/3/7

DIALOG(R) File 155:MEDLINE(R)

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08839702 97019661

Factors affecting neuronal birth and death in the mammalian olfactory epithelium.

Calof AL; Holcomb JD; Mumm JS; Haglwara N; Tran P; Smith KM; Shelton D

Department of Biological Sciences, University of Iowa, Iowa City 52242, USA.

Ciba Found Symp (NETHERLANDS) 1996, 196 p188-205; discussion; 205-10, ISSN 0300-5208 Journal Code: D7X

Contract/Grant No.: NS32174, NS, NINDS; DC02180, DC, NIDCD

Languages: ENGLISH

Document type: JOURNAL ARTICLE; REVIEW; REVIEW, TUTORIAL

3/3/8

DIALOG(R) File 155:MEDLINE(R)

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08821234 96439670

Olfactory neuronal cell lines generated by retroviral insertion of the n-myc oncogene display different developmental phenotypes.

MacDonald KP; Mackay-Sim A; Bushell GR; Bartlett PF

Faculty of Science and Technology, Griffith University, Nathan, Queensland, Australia.

J Neurosci Res (UNITED STATES) Aug 1 1996, 45 (3) p237-47, ISSN 0360-4012 Journal Code: KAC

Languages: ENGLISH

Document type: JOURNAL ARTICLE

3/3/10

DIALOG(R) File 155:MEDLINE(R)

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08747674 96284837

Neurogenesis and cell death in olfactory epithelium.

Calof AL; Hagiwara N; Holcomb JD; Mumm JS; Shou J

Department of Anatomy and Neurobiology, University of California, Irvine, College of Medicine 92717-1275, USA. alcalof@uci.edu

J Neurobiol (UNITED STATES) May 1996, 30 (1) p67-81, ISSN 0022-3034 Journal Code: JAM

Contract/Grant No.: DC 02180, DC, NIDCD; NS32174, NS, NINDS

Languages: ENGLISH

Document type: JOURNAL ARTICLE; REVIEW; REVIEW, TUTORIAL

?

(FILE 'USPAT' ENTERED AT 13:55:15 ON 25 SEP 1998)

L1 0 S OLFACTORY(W)EPITHELIUM(5A)PRECURSOR(W)CELL
L2 50 S OLFACTORY(W)EPITHELIUM
L3 3 S L2 AND PRECURSOR(W)CELL#
L4 48271 S TONGUE
L5 614 S PRECURSOR(W)CELL#
L6 8 S L4 AND L5

=> d 1-8

1. 5,677,174, Oct. 14, 1997, Isolated porcine pancreatic cells for use in treatment of diseases characterized by insufficient insulin activity; Jonathan Dinsmore, 435/325 [IMAGE AVAILABLE]
2. 5,639,939, Jun. 17, 1997, Chimeric immunocompromised mammal comprising vascularized fetal organ tissue; Joseph M. McCune, III, 800/11; 424/9.2, 93.7, 549, 553, 577, 578, 579, 580, 582; 623/11 [IMAGE AVAILABLE]
3. 5,629,194, May 13, 1997, Isolated porcine pancreatic cells for use in treatment of diseases characterized by insufficient insulin activity; Jonathan Dinsmore, 435/325; 424/152.1; 436/548 [IMAGE AVAILABLE]
4. 5,593,673, Jan. 14, 1997, Isolated porcine pancreatic cells for use in treatment of diseases characterized by insufficient insulin activity; Jonathan Dinsmore, 424/93.7; 435/325; 514/866 [IMAGE AVAILABLE]
5. 5,527,182, Jun. 18, 1996, Implant abutment systems, devices, and techniques; Andrew J. M. Willoughby, 433/172, 173 [IMAGE AVAILABLE]
6. 5,354,686, Oct. 11, 1994, Extracellular matrix protein adherent T cells; Allan B. Haberman, 435/372.3 [IMAGE AVAILABLE]
7. 5,188,959, Feb. 23, 1993, Extracellular matrix protein adherent T cells; Allan B. Haberman, 435/6, 4, 332, 373, 385, 402 [IMAGE AVAILABLE]
8. 3,957,963, May 18, 1976, Radioiodinated bleomycin; Sidney E. Salmon, et al., 530/322; 930/DIG.500 [IMAGE AVAILABLE]

Set	Items	Description
S1	17756	TONGUE
S2	2	S1 AND ((NEURAL(3N)STEM) OR (NEURAL (3N)PROGENITOR))

? t s2/5/1,2

2/5/1

DIALOG(R) File 155:MEDLINE(R)

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06909259 92257810

[A case of Moebius syndrome--electrophysiological studies of facial nerve and brainstem]

Noro H; Wakai S; Ishikawa Y; Okabe M; Minami R

Department of Neurology, National Sanatorium, Yakumo Hospital.

Rinsho Shinkeigaku (JAPAN) Nov 1991, 31 (11) p1192-6, ISSN 0009-918X

Journal Code: DF2

Languages: JAPANESE Summary Languages: ENGLISH

Document type: JOURNAL ARTICLE English Abstract

JOURNAL ANNOUNCEMENT: 9208

Subfile: INDEX MEDICUS

A five-year old boy was the product of a 40 week pregnancy by vertex presentation complicated only by threatened abortion at approximately 8 weeks gestation. Apgar score was 5 after one minute. At birth he was noted to have a generalized hypotonia associated with facial diplegia, small mandible, weak suck and swallow reflexes. Admission examination revealed small mandible, mask-like facial expression and mild mental retardation. Cranial nerve examination showed bilateral blepharoptosis and facial nerve palsies. Pupil reflexes were normal, but corneal reflexes were impaired bilaterally. Diplopia due to the left abducens nerve palsy was suggested. There was no atrophy of the **tongue**. Motor tone, strength, and deep tendon reflexes were normal. A normal 46 XY karyotype was present. The other clinical and laboratory findings were normal. MRI of the brain was unremarkable. The characteristics of electrophysiological studies were summarized as follows: 1) Auditory brainstem evoked responses demonstrated waveforms IV-V were abnormal because their amplitudes were less than 30% of wave I bilaterally. 2) Somatosensory evoked potentials documented by central conduction times from cervical region to sensory cortex were prolonged on both sides. 3) Facial nerve conduction velocity was calculated by evoked EMGs of the mentalis muscle electrically stimulated at two distal points over the marginal mandibular branch. MCV of the left side was reduced (34.2 m/sec). 4) The amplitude of the facial muscle potentials evoked by facial nerve stimulation was reduced on both sides. 5) Blink reflex responses documented by the latency difference of R1 responses between the two sides were prolonged. (ABSTRACT TRUNCATED AT 250 WORDS)

Tags: Case Report; Human; Male

Descriptors: *Brain Stem--Physiopathology--PP; *Facial Nerve --Physiopathology--PP; *Facial Paralysis--Physiopathology--PP; *Oculomotor Nerve Paralysis--Physiopathology--PP; Blepharoptosis--Physiopathology--PP; Blinking; Child, Preschool; Electromyography; Evoked Potentials, Auditory, Brain **Stem**; Evoked Potentials, Somatosensory; **Neural** Conduction ; Syndrome

2/5/2

DIALOG(R) File 155:MEDLINE(R)

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03072044 81059059

Primitive neuroectodermal tumor (neuroepithelioma) of spinal nerve root
-- Report of an adult case and establishment of a cell line.

Ishikawa S; Ohshima Y; Suzuki T; Oboshi S

Acta Pathol Jpn (JAPAN) Mar 1979, 29 (2) p289-301, ISSN 0001-6632

Journal Code: 1NE

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 8103

Subfile: INDEX MEDICUS

A case of primitive neuroectodermal tumor arising in the cervical nerve root of a 28-year-old man is presented. Histologically, the tumor was characterized by proliferation of primitive neuroectodermal cells and formation of numerous Homer-Wright type rosettes. A cell line (Nagai line) was established from the tumor. Electron microscopic examination of Nagai cells revealed numerous microrosette formation with microvilli-like cytoplasmic processes projecting into the central lumina. Neurosecretory granules appeared in the cytoplasmic processes when Nagai cells were treated with dibutyryl cyclic AMP. Primitive satellite cells which completely surrounded other tumor cells with their **tongue**-like slender cytoplasmic processes were also found. Histogenesis of this unique tumor was discussed comparing with the neuroblastoma of sympathetic nervous system, medulloblastoma of the central nervous system, and with the tumors induced by Adenovirus type 12 in animals. It was concluded that the tumor was neuroepithelioma derived from a primitive **stem** cell of **neural** crest origin which possesses the bipotency to differentiate toward either neuroblastic or neurilemmal line.

Tags: Case Report; Human; Male; Support, Non-U.S. Gov't

Descriptors: *Neuroepithelioma--Pathology--PA; *Peripheral Nerve Neoplasms--Pathology--PA; *Spinal Nerve Roots; Adult; Bucladesine --Pharmacology--PD; Cell Line; Medulloblastoma--Pathology--PA; Neuroblastoma--Pathology--PA; Neuroblastoma--Ultrastructure--UL; Neuroepithelioma--Ultrastructure--UL

CAS Registry No.: 362-74-3 (Bucladesine)

7/5/1

DIALOG(R) File 155:MEDLINE(R)

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08376089 95364344

Proliferation, cell death, and neuronal differentiation in transplanted human embryonal carcinoma (NTera2) cells depend on the graft site in nude and severe combined immunodeficient mice.

Miyazono M; Lee VM; Trojanowski JQ

Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine, Philadelphia, USA.

Lab Invest (UNITED STATES) Aug 1995, 73 (2) p273-83, ISSN 0023-6837
Journal Code: KZ4

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 9511

Subfile: INDEX MEDICUS

BACKGROUND: Embryonal carcinoma cell lines have been used to study the induction and progression of tumors, the mechanisms governing lineage commitment in the central nervous system, and the developmental biology of neurons and glia. Here, we have used a human embryonal carcinoma cell line (NTera2/cl.D1 or NT2 cells) that resembles **neural progenitor** cells to study how an in vivo environment influences and regulates the fate of these cells. EXPERIMENTAL DESIGN: To understand the mechanisms that coordinately regulate the proliferation, death, and differentiation of NT2 cells, we examined these processes by transplanting human NT2 cells in the brains and **peripheral tissues** (liver, muscle) of immunodeficient mice. RESULTS: We demonstrate that the proliferation, differentiation, and death of NT2 cells were modulated by the anatomical site into which the NT2 grafts were implanted. The NT2 cells continued to proliferate and undergo cell death but showed a very limited capacity to differentiate into neurons after implantation into the subarachnoid space and superficial neocortex. At this site, the NT2 cell grafts rapidly formed bulky tumors that were lethal within 70 days postimplantation. Further, NT2 cell grafts in the lateral ventricles, liver, and muscle behaved in a similar manner. In contrast, NT2 cells implanted into the caudoputamen ceased proliferating and showed no evidence of necrosis or apoptosis after postimplantation survival intervals of more than 20 weeks. This occurred in parallel with the progressive differentiation of large numbers of NT2 cells into postmitotic, immature, neuron-like cells. CONCLUSIONS: These results suggest that signal molecules or other "cues" (e.g., cell-cell contacts) capable of regulating the proliferation, death, and differentiation of human NT2 cells are biologically active in the adult mouse caudoputamen. Thus, the transplantation of human NT2 cells into the central nervous system of immunodeficient mice may serve as an in vivo model system for studies of the formation and re-modeling of the developing central nervous system.

Tags: Animal; Female; Human; Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S.

Descriptors: *Cell Death--Physiology--PH; *Neoplasm Transplantation--Pathology--PA; *Teratocarcinoma--Pathology--PA; Cell Differentiation--Physiology--PH; Cell Division--Physiology--PH; Immunohistochemistry; Liver; Mice; Mice, Nude; Mice, SCID; Muscles; Teratocarcinoma--Chemistry--CH; Tumor Cells, Cultured

08920272

((("stem cells"[MeSH Terms] OR stem cell[Text Word])
AND
("peripheral nervous system"[MeSH Terms] OR PNS[Text Word]))
AND
(primary[All Fields]
AND
((("ethnology"[Subheading] OR "ethnology"[MeSH Terms]) OR "culture"[MeSH Terms]) OR culture[Text
Word])))

Calof AL, et al

Regulation of neurogenesis and neuronal differentiation in primary and immortalized cells from mouse olfactory epithelium.

Ciba Found Symp. 1991;160:249-65; discussion 265-76.

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Neuron. 1989 Jul;3(1):115-27.

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Cultured rat olfactory neurons are excitable and respond to odors.

Brain Res Dev Brain Res. 1990 Apr 1;53(1):125-30.

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Characterization of olfactory receptor neurons and other cell types in dissociated rat olfactory cell cultures.

Int J Dev Neurosci. 1996 Nov;14(7-8):823-39.

PMID: 9010728; UI: 97163981.

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Ciba Found Symp. 1996;196:188-205; discussion; 205-10. Review.

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Pflugers Arch. 1987 Jul;409(3):244-50.

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Exp Cell Res. 1999 Oct 10;252(1):75-95.

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Differentiation of neuron-like cells in cultured rat optic nerves: a neuron or common neuron-glia progenitor?

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Neuron-like cells on the apical surface of the developing rat olfactory epithelium.

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Neuron. 1992 Jun;8(6):1191-204.
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Generation of neurons from a nonneuronal precursor in adult olfactory epithelium in vitro.
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Pflugers Arch. 1987 Jul;409(3):244-50.
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Factors affecting neuronal birth and death in the mammalian olfactory epithelium.
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1. Document ID: US 5981165 A

Entry 1 of 22

File: USPT

Nov 9, 1999

US-PAT-NO: 5981165

DOCUMENT-IDENTIFIER: US 5981165 A
TITLE: In vitro induction of dopaminergic cells

2. Document ID: US 5980885 A

Entry 2 of 22

File: USPT

Nov 9, 1999

US-PAT-NO: 5980885

DOCUMENT-IDENTIFIER: US 5980885 A

TITLE: Growth factor-induced proliferation of neural precursor cells in vivo

3. Document ID: US 5968829 A

Entry 3 of 22

File: USPT

Oct 19, 1999

US-PAT-NO: 5968829

DOCUMENT-IDENTIFIER: US 5968829 A

TITLE: Human CNS neural stem cells

4. Document ID: US 5958767 A

Entry 4 of 22

File: USPT

Sep 28, 1999

US-PAT-NO: 5958767

DOCUMENT-IDENTIFIER: US 5958767 A

TITLE: Engraftable human neural stem cells

5. Document ID: US 5935852 A

Entry 5 of 22

File: USPT

Aug 10, 1999

US-PAT-NO: 5935852

DOCUMENT-IDENTIFIER: US 5935852 A

TITLE: DNA molecules encoding mammalian cerberus-like proteins

6. Document ID: US 5912326 A
Entry 6 of 22

File: USPT

Jun 15, 1999

US-PAT-NO: 5912326
DOCUMENT-IDENTIFIER: US 5912326 A
TITLE: Cerebellum-derived growth factors

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Entry 7 of 22

File: USPT

Jan 26, 1999

US-PAT-NO: 5863744
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Entry 8 of 22

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DOCUMENT-IDENTIFIER: US 5861283 A
TITLE: DNA encoding a limbic system-associated membrane protein

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Entry 9 of 22

File: USPT

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Entry 10 of 22

File: USPT

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US-PAT-NO: 5830651

DOCUMENT-IDENTIFIER: US 5830651 A

TITLE: Human oligodendroglial progenitor cell line

11. Document ID: US 5844079 A

Entry 11 of 22

File: USPT

Dec 1, 1998

US-PAT-NO: 5844079

DOCUMENT-IDENTIFIER: US 5844079 A

TITLE: Vertebrate embryonic pattern-inducing proteins, and uses related thereto

12. Document ID: US 5795723 A

Entry 12 of 22

File: USPT

Aug 18, 1998

US-PAT-NO: 5795723

DOCUMENT-IDENTIFIER: US 5795723 A

TITLE: Expression of neurogenic bHLH genes in primitive neuroectodermal tumors

13. Document ID: US 5795734 A

Entry 13 of 22

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Aug 18, 1998

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TITLE: EPH receptor ligands, and uses related thereto

14. Document ID: US 5766948 A

Entry 14 of 22

File: USPT

Jun 16, 1998

US-PAT-NO: 5766948

DOCUMENT-IDENTIFIER: US 5766948 A
TITLE: Method for production of neuroblasts

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Entry 15 of 22

File: USPT

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DOCUMENT-IDENTIFIER: US 5762926 A
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Entry 16 of 22

File: USPT

May 19, 1998

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Entry 17 of 22

File: USPT

May 12, 1998

US-PAT-NO: 5750376
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18. Document ID: US 5695995 A
Entry 18 of 22

File: USPT

Dec 9, 1997

US-PAT-NO: 5695995
DOCUMENT-IDENTIFIER: US 5695995 A
TITLE: Neurogenic differentiation (neurod) genes

19. Document ID: US 5654189 A
Entry 19 of 22

File: USPT

Aug 5, 1997

US-PAT-NO: 5654189
DOCUMENT-IDENTIFIER: US 5654189 A
TITLE: Preparation of pure cultures of post-mitotic human neurons

20. Document ID: US 5650148 A
Entry 20 of 22

File: USPT

Jul 22, 1997

US-PAT-NO: 5650148
DOCUMENT-IDENTIFIER: US 5650148 A
TITLE: Method of grafting genetically modified cells to treat defects, disease or damage of the central nervous system

21. Document ID: US 5525329 A
Entry 21 of 22

File: USPT

Jun 11, 1996

US-PAT-NO: 5525329
DOCUMENT-IDENTIFIER: US 5525329 A
TITLE: Inhibition of phosphodiesterase in olfactory mucosa

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Entry 22 of 22

File: USPT

Dec 29, 1992

US-PAT-NO: 5175103
DOCUMENT-IDENTIFIER: US 5175103 A
TITLE: Preparation of pure cultures of post-mitotic human neurons

1. Document ID: US 5643551 A

Entry 1 of 2

File: USPT

Jul 1, 1997

US-PAT-NO: 5643551

DOCUMENT-IDENTIFIER: US 5643551 A

TITLE: Small animal metastasis model

2. Document ID: US 5639939 A

Entry 2 of 2

File: USPT

Jun 17, 1997

US-PAT-NO: 5639939

DOCUMENT-IDENTIFIER: US 5639939 A

TITLE: Chimeric immunocompromised mammal comprising vascularized fetal organ tissue